

#16/Formal Drawing
R. Morgan
11/1/96

780.29643CX1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas J. CAMPANA, Jr.
Serial No.: 08/443,430
Filed: May 18, 1995
For: ELECTRONIC MAIL SYSTEM WITH RF
COMMUNICATIONS TO MOBILE PROCESSORS
Group: 2608
Examiner: G. Oehling

RECEIVED
96 SEP 24 AM 7:05
GROUP 260

**RE-TRANSMITTAL OF FORMAL DRAWINGS
AND RESPONSE TO OBJECTION TO THE
DRAWINGS OF OBTAINING DESCRIPTIVE MATTER**

Honorable Commissioner of
Patents and Trademarks
Washington, D. C. 20231

September 20, 1996

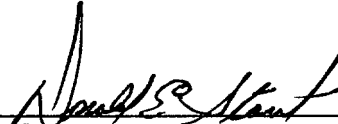
Sir:

Transmitted herewith are twelve (12) sheets of Formal Drawings (non-bristol boards) showing Figs. 1-12 in the above-identified application in compliance with the provisions of Rule 84.

Reconsideration of the Official Draftsman's ruling that the legends in Figs. 2, 6 and 11 contain objectionable descriptive matter is respectively requested. United States Patent 5,438,611, which has the same exact filing date of this application and which contains identical drawings, issued with the legends in Figs. 2, 6 and 11 which have been objected to in this application. A photocopy of the drawings of those figures from United States Patent 5,438,611 is enclosed along with a

photocopy of the Official Draftsman's acceptance therein of the legends in Figs. 2, 6 and 11 is enclosed. Accordingly, acceptance of the drawings transmitted herewith is respectfully requested.

Respectfully submitted,



Donald E. Stout
Registration No. 26,422
ANTONELLI, TERRY, STOUT & KRAUS
(703) 312-6600

Attachments

DES:dlh

The drawings filed (insert date) 6-10-94, are
A. ☒ not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.
B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
Black ink. Color.

- ☐ Not black solid lines. Fig(s) _____
- ☐ Color drawings are not acceptable until petition is granted.

2. PHOTOGRAPHS. 37 CFR 1.84(b)

- ☐ Photographs are not acceptable until petition is granted.

3. GRAPHIC FORMS. 37 CFR 1.84 (d)

- ☐ Chemical or mathematical formula not labeled as separate figure. Fig(s) _____
- ☐ Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) _____
- ☐ Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____

4. TYPE OF PAPER. 37 CFR 1.84(e)

- ☐ Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) _____
- ☐ Erasures, alterations, overwritings, interlineations, cracks, creases, and folds not allowed. Sheet(s) all sheets poor

5. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable paper sizes:

- ☐ 21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)
- ☐ 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)
- ☐ 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)
- ☐ 21.0 cm. by 29.7 cm. (DIN size A4)

- ☐ All drawing sheets not the same size. Sheet(s) photo
- ☐ Drawing sheet not an acceptable size. Sheet(s) copy

6. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Paper size

| | | | |
|---|---|---------------------------------------|---------------------------------|
| 21.6 cm. X 35.6 cm. (8 1/2 X 14 inches) | 21.6 cm. X 33.1 cm. (8 1/2 X 13 inches) | 21 cm. X 27.9 cm. (8 1/2 X 11 inches) | 21 cm. X 29.7 cm. (DIN Size A4) |
| T 5.1 cm. (2") | 2.5 cm. (1") | 2.5 cm. (1") | 2.5 cm. |
| L .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 2.5 cm. |
| R .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 1.5 cm. |
| B .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 1.0 cm. |

Margins do not conform to chart above.

Sheet(s) _____

Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____

7. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

- ☐ All views not grouped together. Fig(s) _____
- ☐ Views connected by projection lines. Fig(s) _____
- ☐ Views contain center lines. Fig(s) _____

Partial views. 37 CFR 1.84(h)(2)

- ☐ Separate sheets not linked edge to edge. Fig(s) _____
- ☐ View and enlarged view not labeled separately. Fig(s) _____
- ☐ Long view relationship between different parts not clear and unambiguous. 37 CFR 1.84(h)(2)(ii) Fig(s) _____

Sectional views. 37 CFR 1.84(h)(3)

- ☐ Hatching not indicated for sectional portions of an object. Fig(s) _____
- ☐ Hatching of regularly spaced oblique parallel lines not spaced sufficiently. Fig(s) _____
- ☐ Hatching not at substantial angle to surrounding axes or principal lines. Fig(s) _____
- ☐ Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes Fig(s) _____
- ☐ Hatching of juxtaposed different elements not angled in a different way. Fig(s) _____

Alternate position. 37 CFR 1.84(h)(4)

- ☐ A separate view required for a moved position. Fig(s) _____

Modified forms. 37 CFR 1.84(h)(5)

- ☐ Modified forms of construction must be shown in separate views. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

- ☐ View placed upon another view or within outline of another. Fig(s) _____
- ☐ Words do not appear in a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. SCALE. 37 CFR 1.84(k)

- ☐ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
- ☐ Indication such as "actual size" or "scale 1/2" not permitted. Fig(s) _____
- ☐ Elements of same view not in proportion to each other. Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)

- ☐ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings). Fig(s) _____

11. SHADING. 37 CFR 1.84(m)

- ☐ Shading used for other than shape of spherical, cylindrical, and conical elements of an object, or for flat parts. Fig(s) _____
- ☐ Solid black shading areas not permitted. Fig(s) _____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)

- ☐ Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) _____
- ☐ Numbers and reference characters used in conjunction with brackets, inverted commas, or enclosed within outlines. 37 CFR 1.84(p)(1) Fig(s) _____
- ☐ Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
- ☐ English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) _____
- ☐ Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3) Fig(s) 6

13. LEAD LINES. 37 CFR 1.84(q)

- ☐ Lead lines cross each other. Fig(s) _____
- ☐ Lead lines missing. Fig(s) _____
- ☐ Lead lines not as short as possible. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

- ☐ Number appears in top margin. Fig(s) _____
- ☐ Number not larger than reference characters. Fig(s) _____
- ☐ Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____

15. NUMBER OF VIEWS. 37 CFR 1.84(u)

- ☐ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
- ☐ View numbers not preceded by the abbreviation Fig. Fig(s) _____
- ☐ Single view contains a view number and the abbreviation Fig. Fig(s) _____
- ☐ Numbers not larger than reference characters. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w)

- ☐ Corrections not durable and permanent. Fig(s) _____

17. DESIGN DRAWING. 37 CFR 1.152

- ☐ Surface shading shown not appropriate. Fig(s) _____
- ☐ Solid black shading not used for color contrast. Fig(s) _____

DRAWING REVIEW REQUEST
TRANSMITTAL

EXAMINING GROUP PERSONNEL—Please complete the top part of this transmittal and attach it to the complete set of drawings. Deliver drawings and this transmittal form to Drafting Branch.

Oehling
Examiner/Clerk

2608
Group/Art Unit

11/1/96
Date

08/443430
Application Number

12
Number of Sheet(s) of Drawings

TRANSMITTED:

- ☒ Complete set of drawings for review. No previous PTO-948.
- ☐ Complete set of drawings for review. Latest PTO-948 attached.

DRAFTING PERSONNEL—Complete new PTO-948 and return with drawing(s).

Comments: _____

RECEIVED

96 NOV -4 PM 11:19

DRAFTING REVIEW BLANCH
PUBLISHING DIVISION

5625670

5625670-2

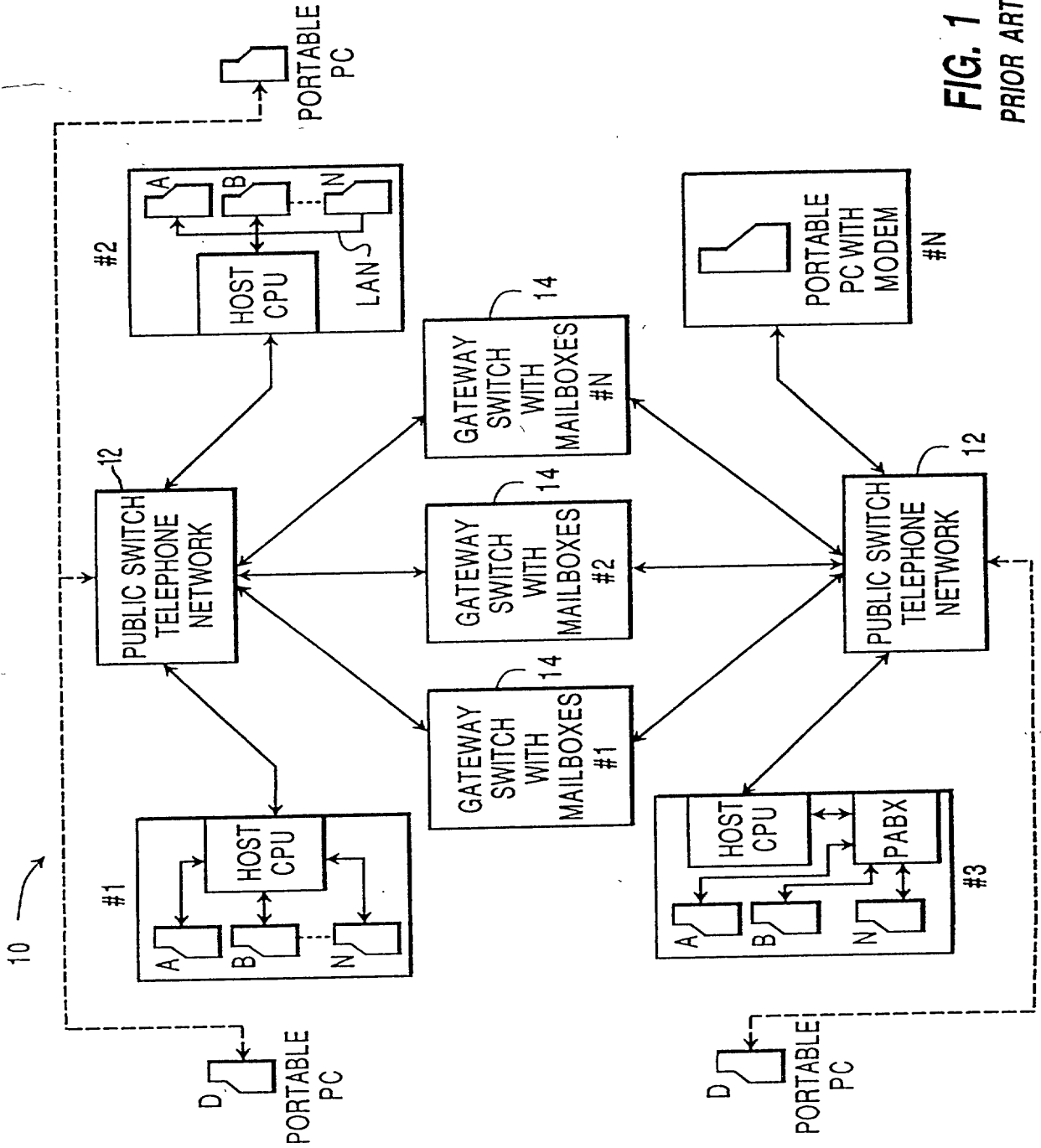


FIG. 1
PRIOR ART

FIG. 2

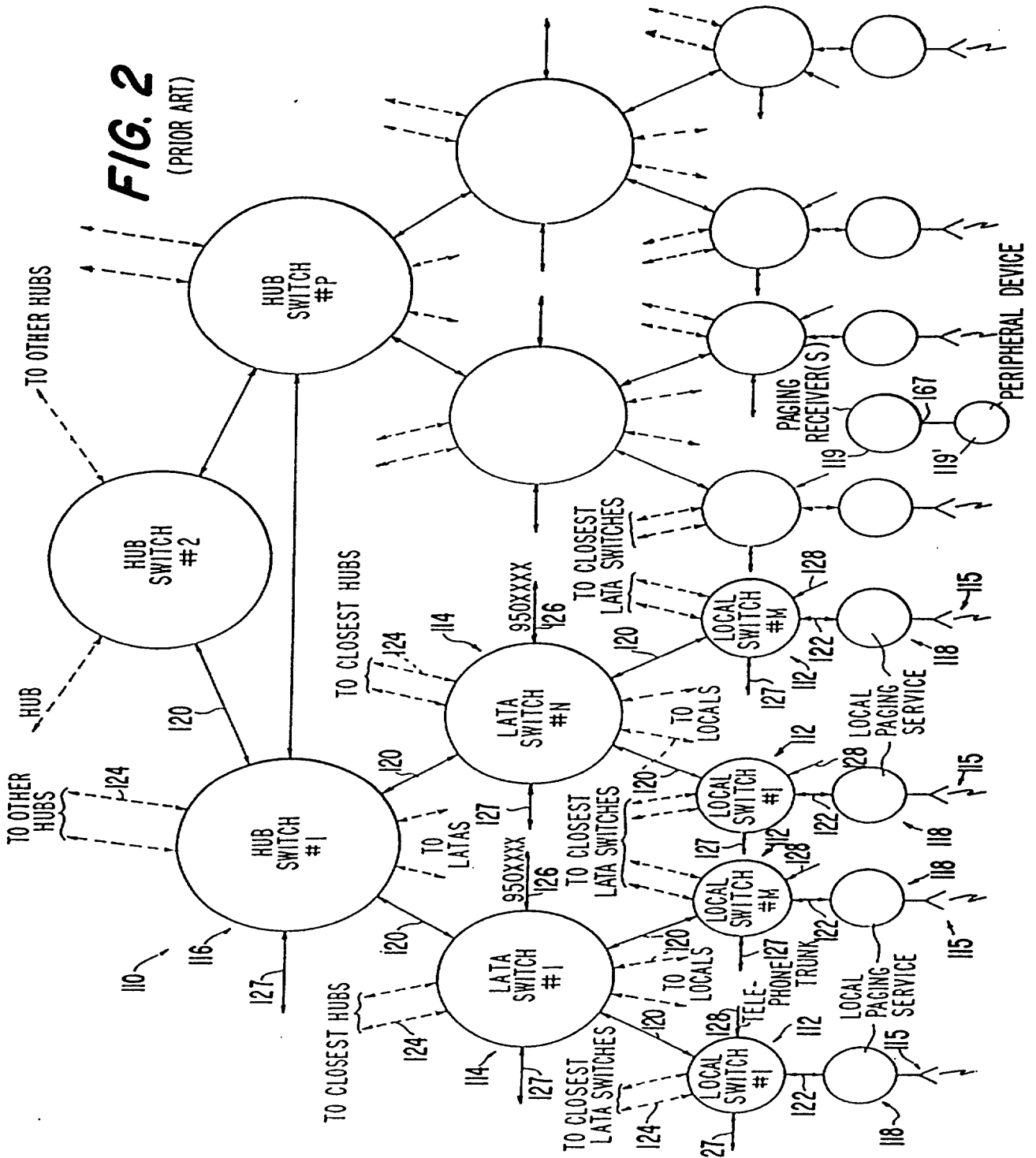


FIG. 3

(PRIOR ART)

LOCAL SWITCH MEMORY MAP

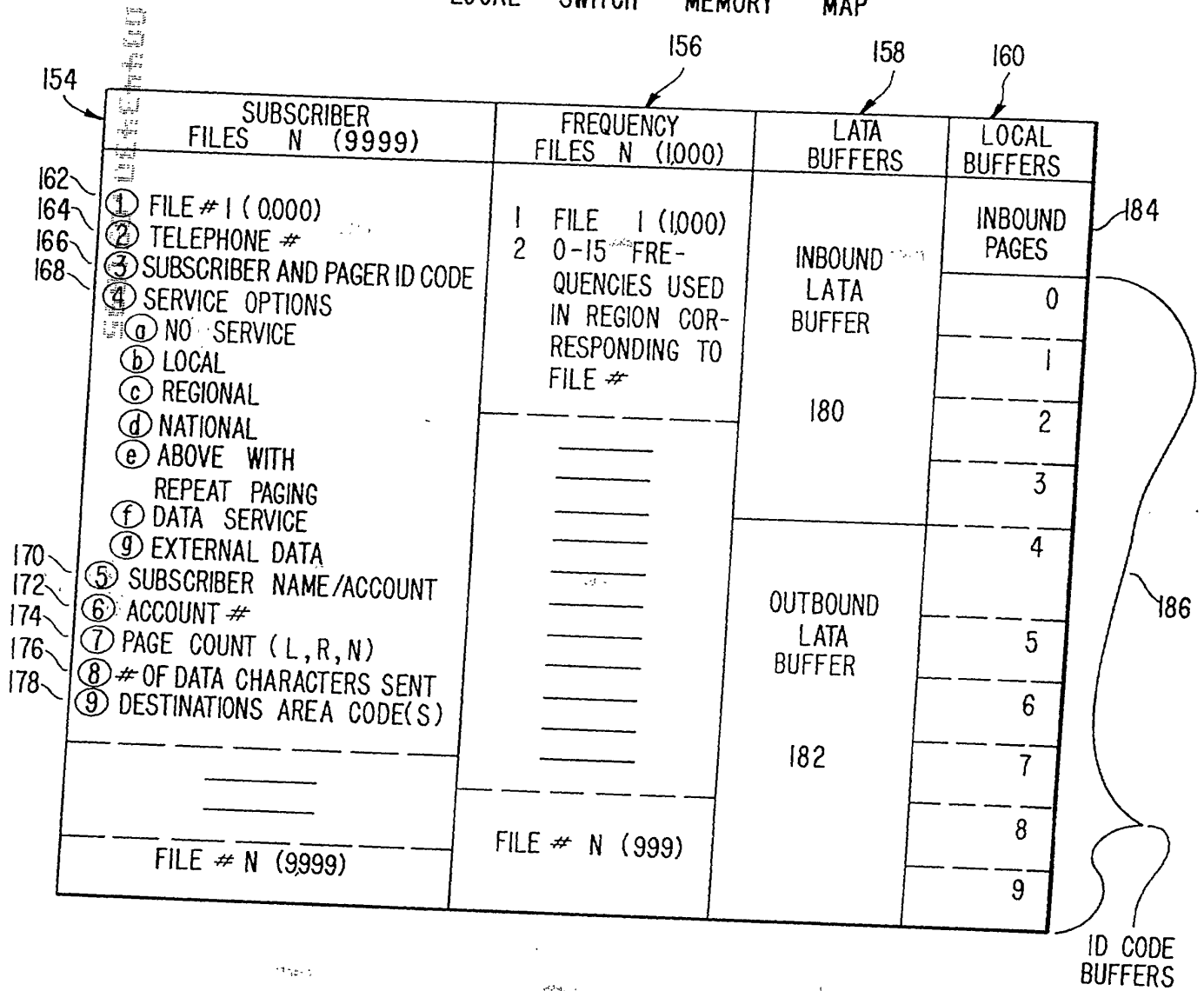


FIG. 4

(PRIOR ART)

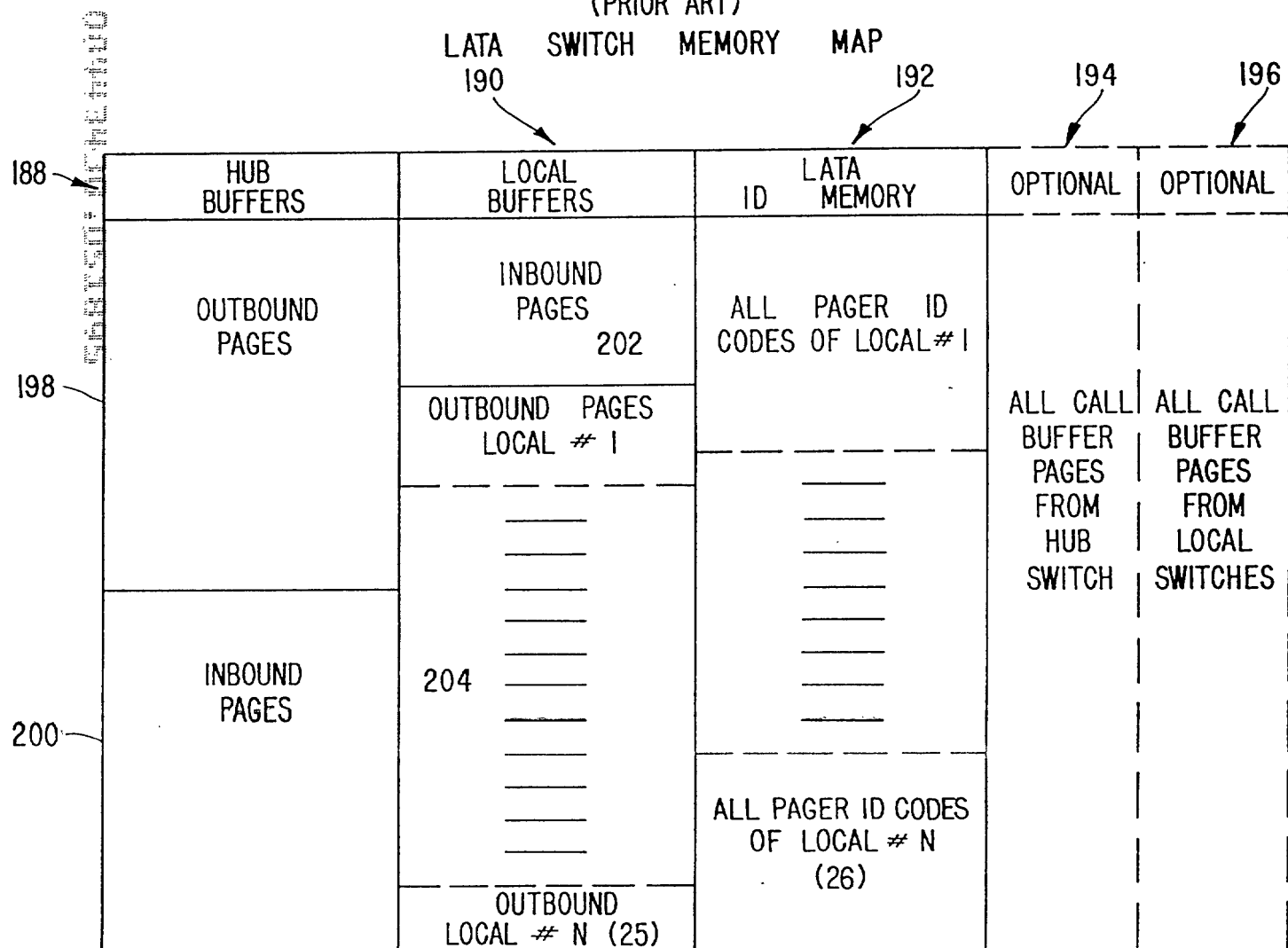
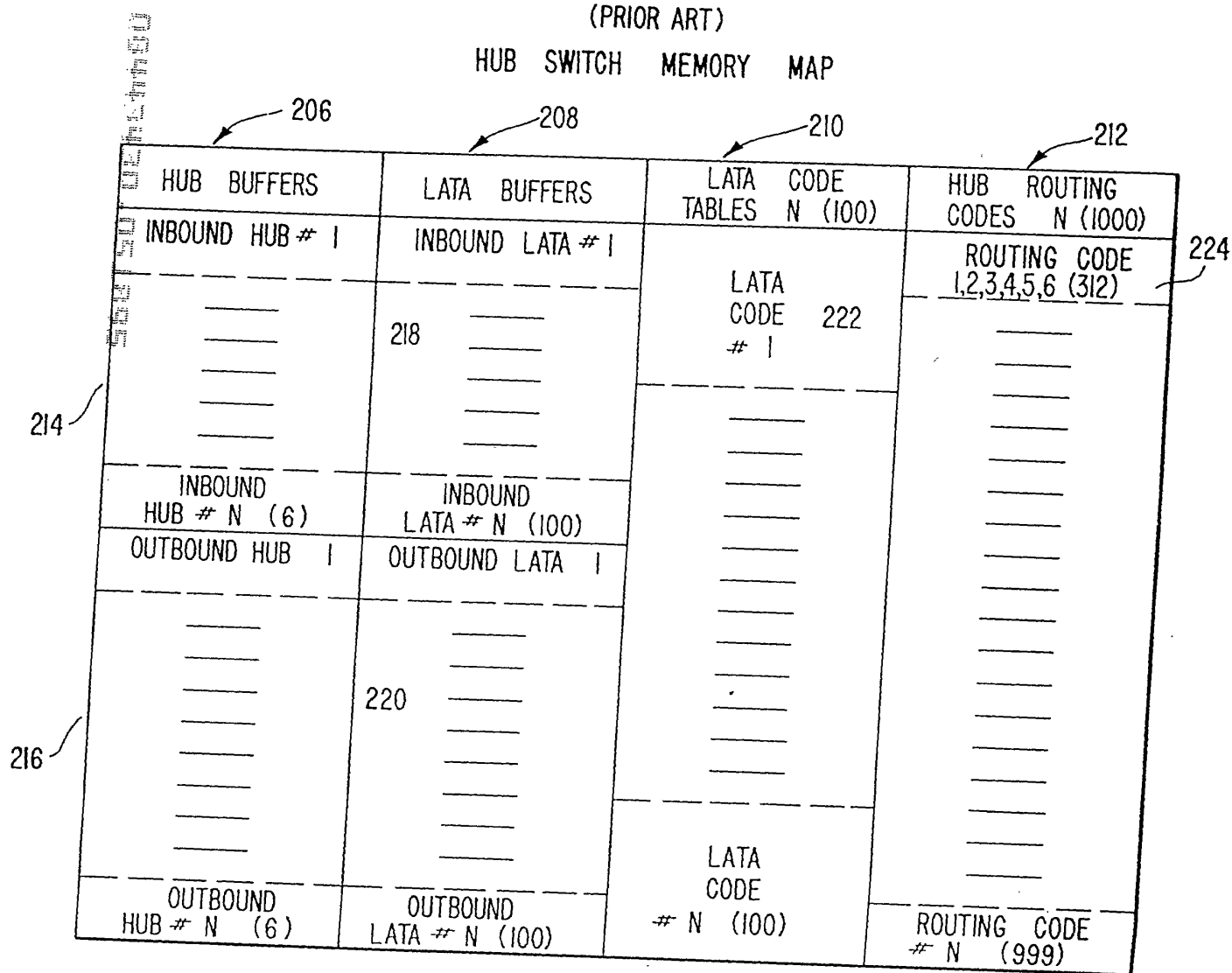


FIG. 5

(PRIOR ART)

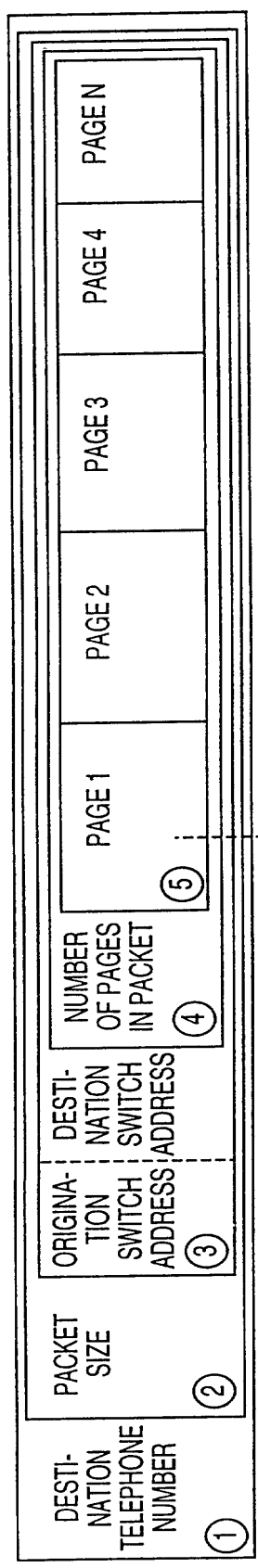
HUB SWITCH MEMORY MAP



SECRET

FIG. 6
PRIOR ART

THE FIVE LAYER MODIFIED X.25 PACKET

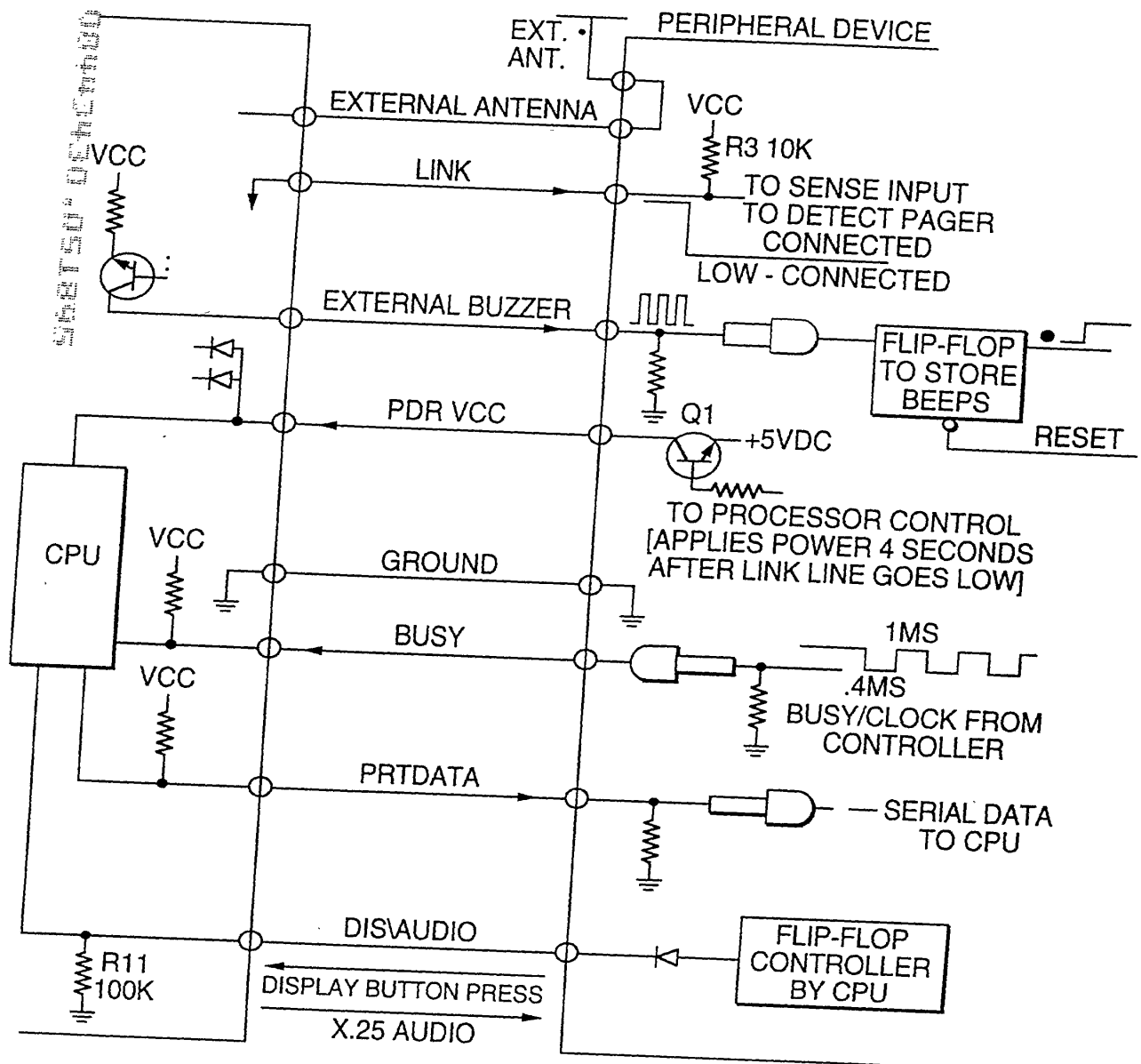


MESSAGE DETAIL



1- COUNTRY-CITY CODES
 8 DIGIT ID CODE AREA CODES
 BEGINNING OF FILE

FIG. 7
PRIOR ART



50150-024400

FIG. 8

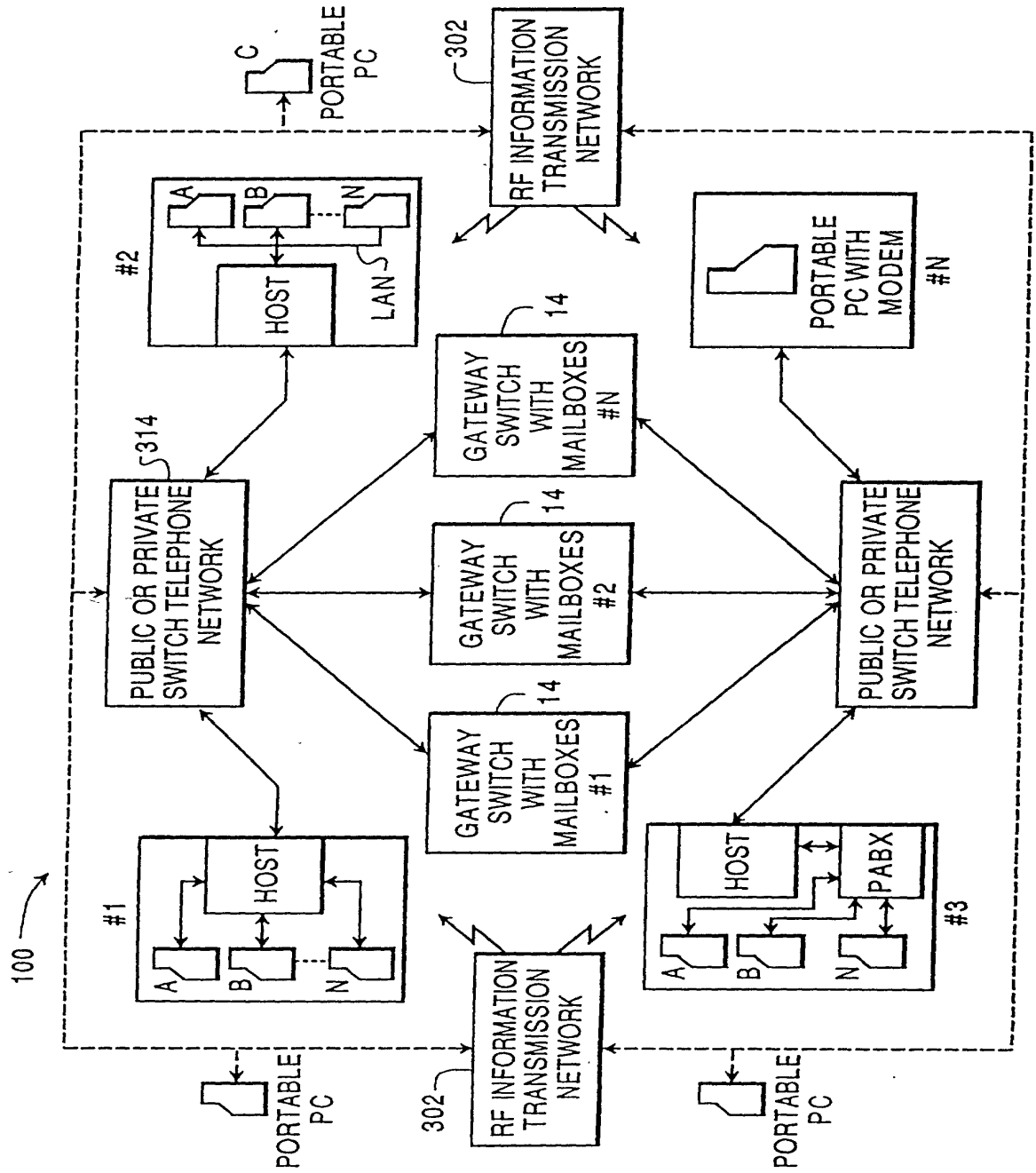
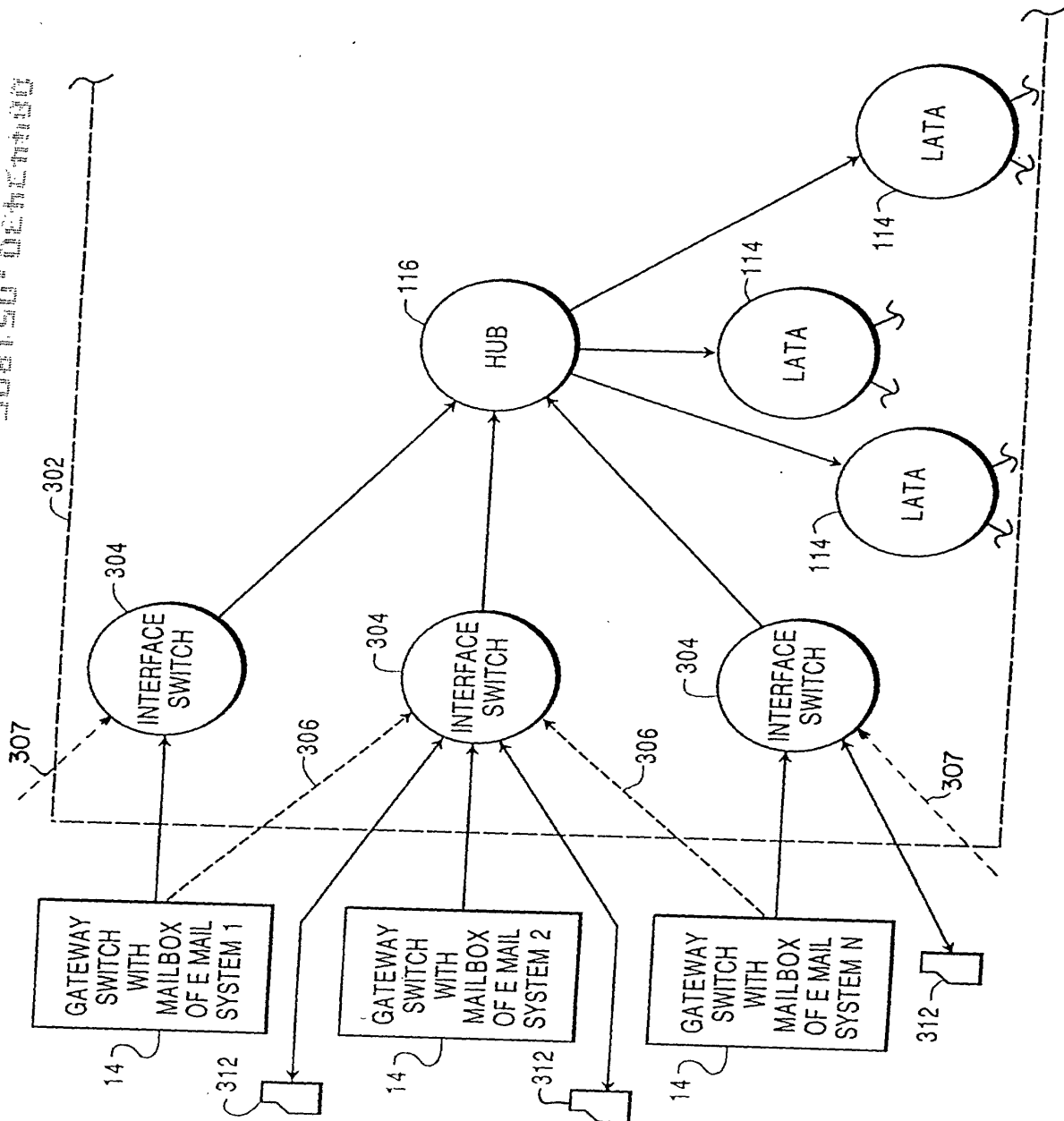


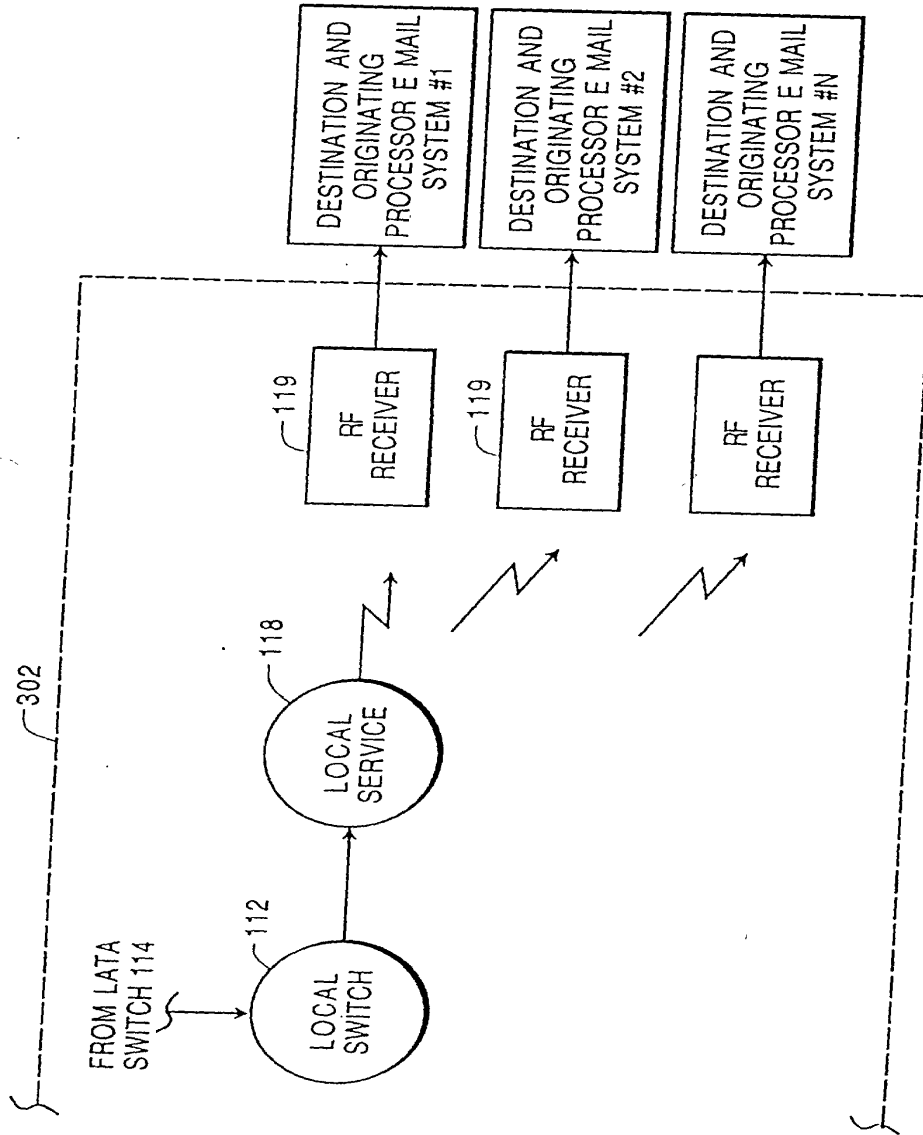
FIG. 9

Subnet Detection



36050-0110

FIG. 10



SECRET 0244430

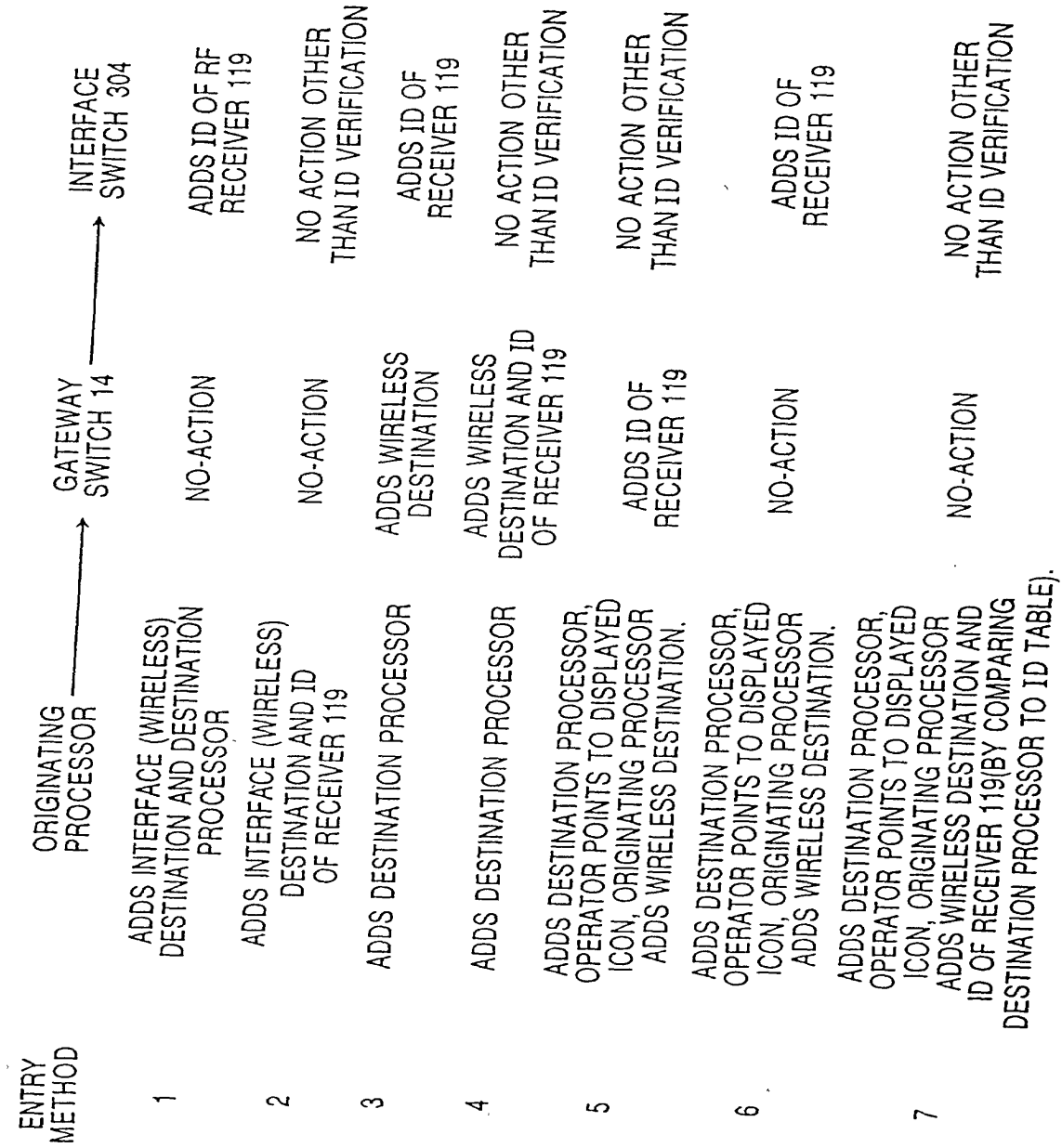
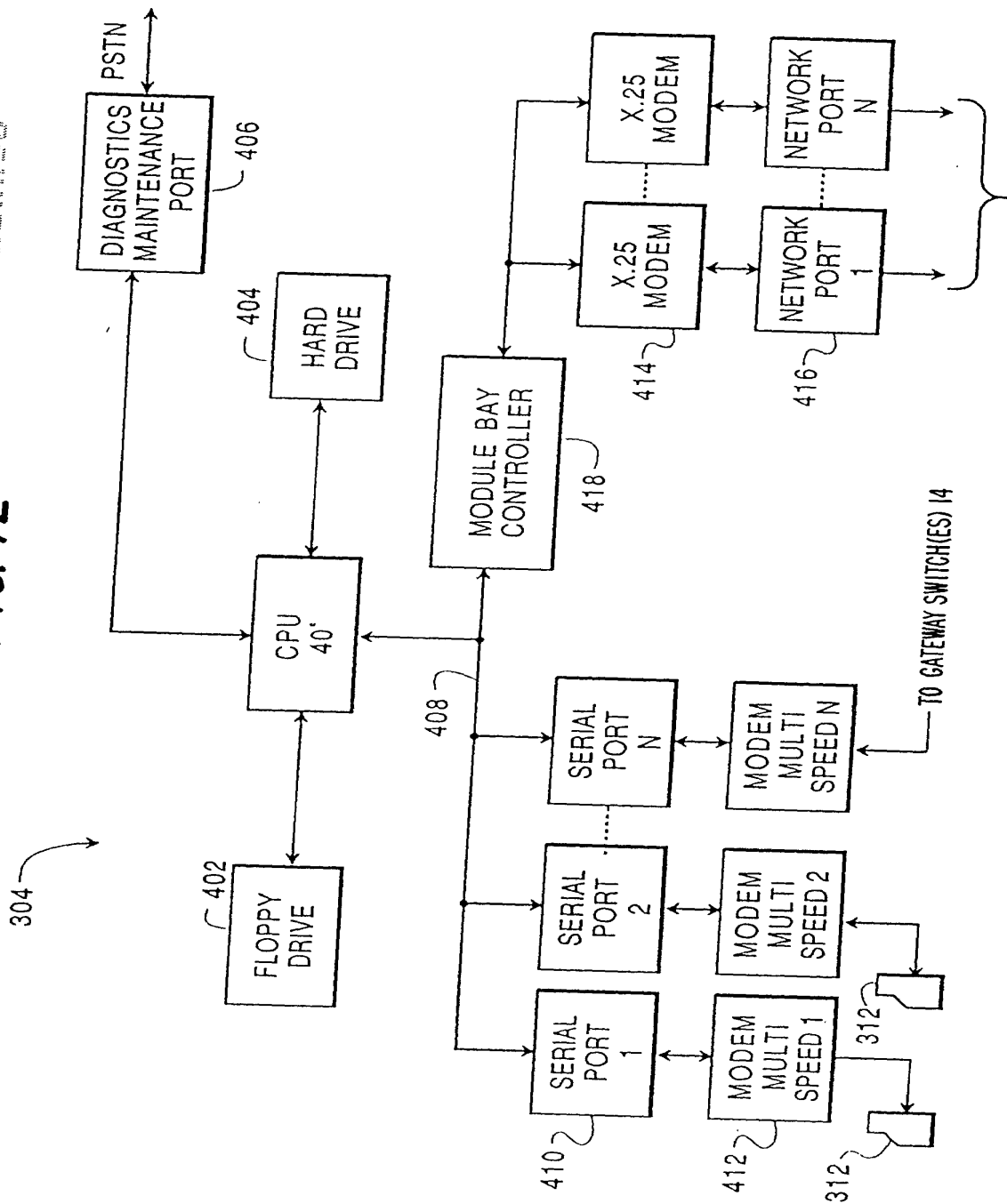


FIG. 11

FIG. 12



NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 703-305-8404.

The drawings filed (insert date) 09/20/96, are
 A. ☒ not objected to by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. ☐ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this Notice.

1. **DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings:
 Black ink. Color.

- ☐ Not black solid lines. Fig(s) _____
☐ Color drawings are not acceptable until petition is granted.
 Fig(s) _____

2. **PHOTOGRAPHS.** 37 CFR 1.84(b)

- ☐ Photographs are not acceptable until petition is granted.
 Fig(s) _____
☐ Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) _____
☐ Poor quality (half-tone). Fig(s) _____

3. **GRAPHIC FORMS.** 37 CFR 1.84(d)

- ☐ Chemical or mathematical formula not labeled as separate figure.
 Fig(s) _____
☐ Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis.
 Fig(s) _____
☐ Individuals waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) _____

4. **TYPE OF PAPER.** 37 CFR 1.84(c)

- ☐ Paper not flexible, strong, white, smooth, nonshiny, and durable.
 Sheet(s) _____
☐ Abrasures, alterations, overwritings, interlineations, cracks, creases, and folds, copy machine marks not accepted. Fig(s) _____
☐ Mylar, velum paper is not acceptable (too thin). Fig(s) _____

5. **SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:

- 21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)
 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)
 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)
 21.0 cm. by 29.7 cm. (DIN size A4)

- ☐ All drawing sheets not the same size. Sheet(s) _____
☐ Drawing sheet not an acceptable size. Sheet(s) _____

6. **MARGINS.** 37 CFR 1.84(g): Acceptable margins:

Paper size

| | | | |
|--|--|--|--------------------------------------|
| 21.6 cm. X 35.6 cm. (8 1/2 X 14 inches) | 21.6 cm. X 33.1 cm. (8 1/2 X 13 inches) | 21.6 cm. X 27.9 cm. (8 1/2 X 11 inches) | 21.0 cm. X 29.7 cm. (DIN Size A4) |
| T 5.1 cm. (2") | 2.5 cm. (1") | 2.5 cm. (1") | 2.5 cm. |
| L .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 2.5 cm. |
| R .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 1.5 cm. |
| B .64 cm. (1/4") | .64 cm. (1/4") | .64 cm. (1/4") | 1.0 cm. |

Margins do not conform to chart above.

Sheet(s) _____

Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____

7. **VIEWS.** 37 CFR 1.84(h)

- REMINDER: Specification may require revision to correspond to drawing changes.
☐ All views not grouped together. Fig(s) _____
☐ Views connected by projection lines or lead lines.
 Fig(s) _____
☐ Partial views. 37 CFR 1.84(h) 2

- ☐ View and enlarged view not labeled separately or properly.
 Fig(s) _____

- ☐ Sectional views. 37 CFR 1.84 (h) 3
☐ Hatching not indicated for sectional portions of an object.
 Fig(s) _____
☐ Cross section not drawn same as view with parts in cross section with regularly spaced parallel oblique strokes. Fig(s) _____

8. **ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)

- ☐ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. **SCALE.** 37 CFR 1.84(k)

- ☐ Scale not large enough to show mechanism with crowding when drawing is reduced in size to two-thirds in reproduction.
 Fig(s) _____
☐ Indication such as "actual size" or scale 1/2" not permitted.
 Fig(s) _____

10. **CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(l)

- ☐ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (except for color drawings).
 Fig(s) _____

11. **SHADING.** 37 CFR 1.84(m)

- ☐ Solid black shading areas not permitted.
 Fig(s) _____

- ☐ Shade lines, pale, rough and blurred. Fig(s) _____

12. **NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)

- ☐ Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1). Fig(s) _____
☐ Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1). Fig(s) _____
☐ English alphabet not used. 37 CFR 1.84(p)(2). Fig(s) _____
☐ Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3). Fig(s) _____

13. **LEAD LINES.** 37 CFR 1.84(q)

- ☐ Lead lines cross each other. Fig(s) _____
☐ Lead lines missing. Fig(s) _____

14. **NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(r)

- ☐ Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) _____

15. **NUMBER OF VIEWS.** 37 CFR 1.84(u)

- ☐ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
☐ View numbers not preceded by the abbreviation Fig.
 Fig(s) _____

16. **CORRECTIONS.** 37 CFR 1.84(w)

- ☐ Corrections not made from prior PTO-948.
 Fig(s) _____

17. **DESIGN DRAWING.** 37 CFR 1.152

- ☐ Surface shading shown not appropriate. Fig(s) _____
☐ Solid black shading not used for color contrast.
 Fig(s) _____

COMMENTS: